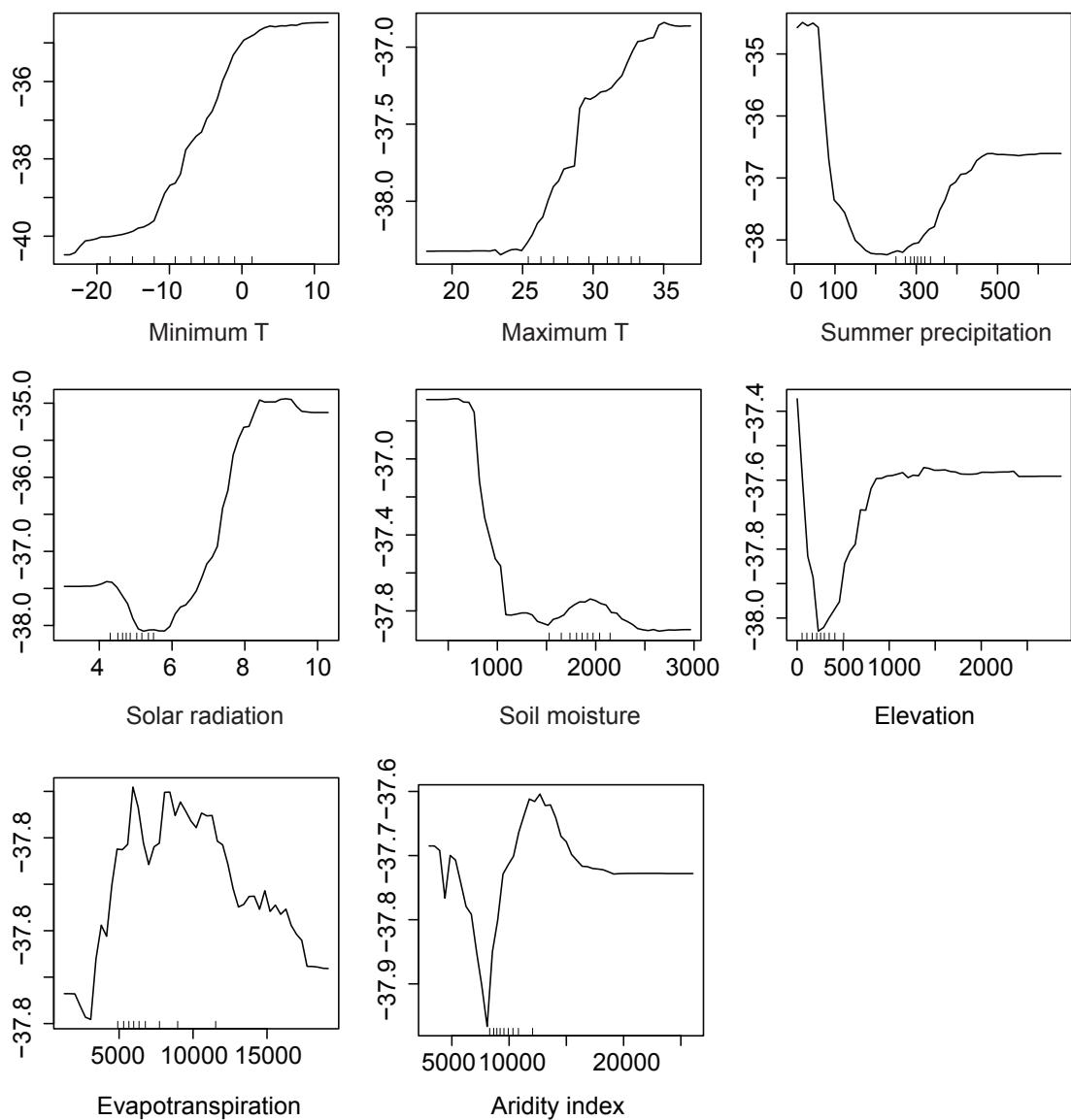


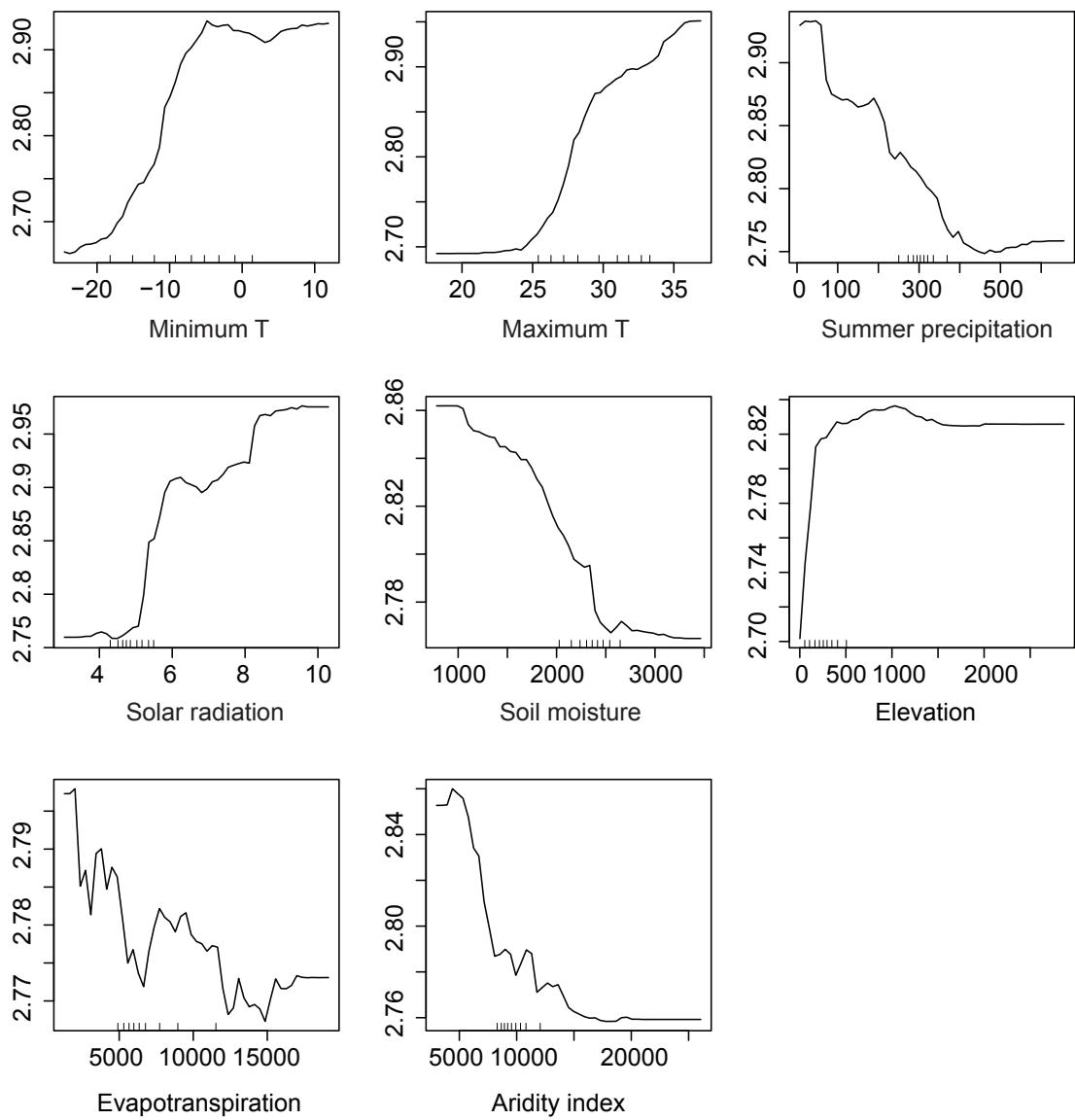
Appendix S7 – Partial dependence plots (response curves) for the 17 traits and species' environmental tolerances.

Partial dependence plots are used to graphically characterise relationships between individual predictor variables and predicted probabilities of the explanatory variables obtained from the random forest models. Partial dependence plots show the effect of a predictor variable after averaging out the effects of the other predictor variables in the model. Plots have been done using the function `'partialPlot'` of the `'RandomForest'` R package.

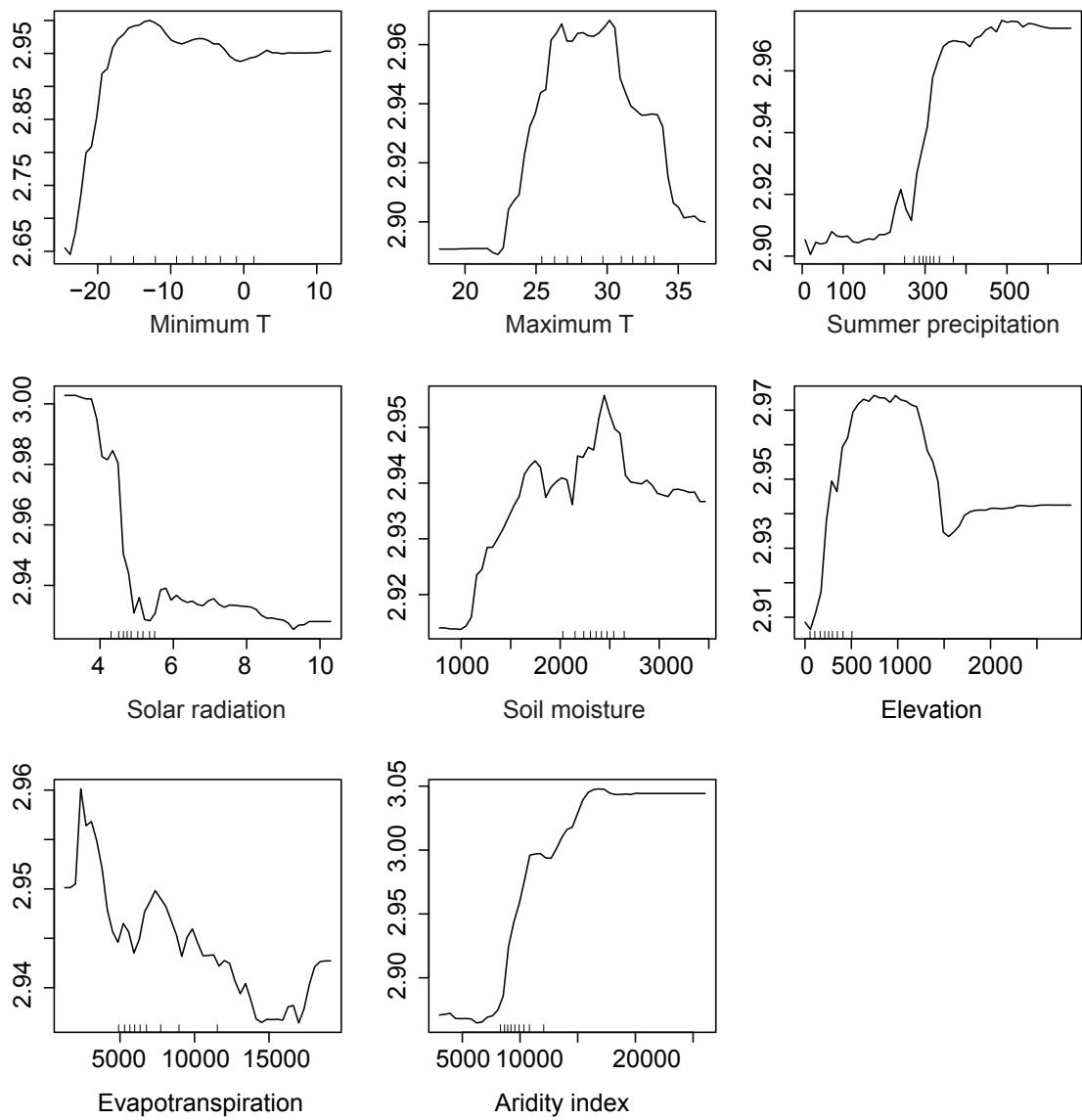
a) Cold tolerance



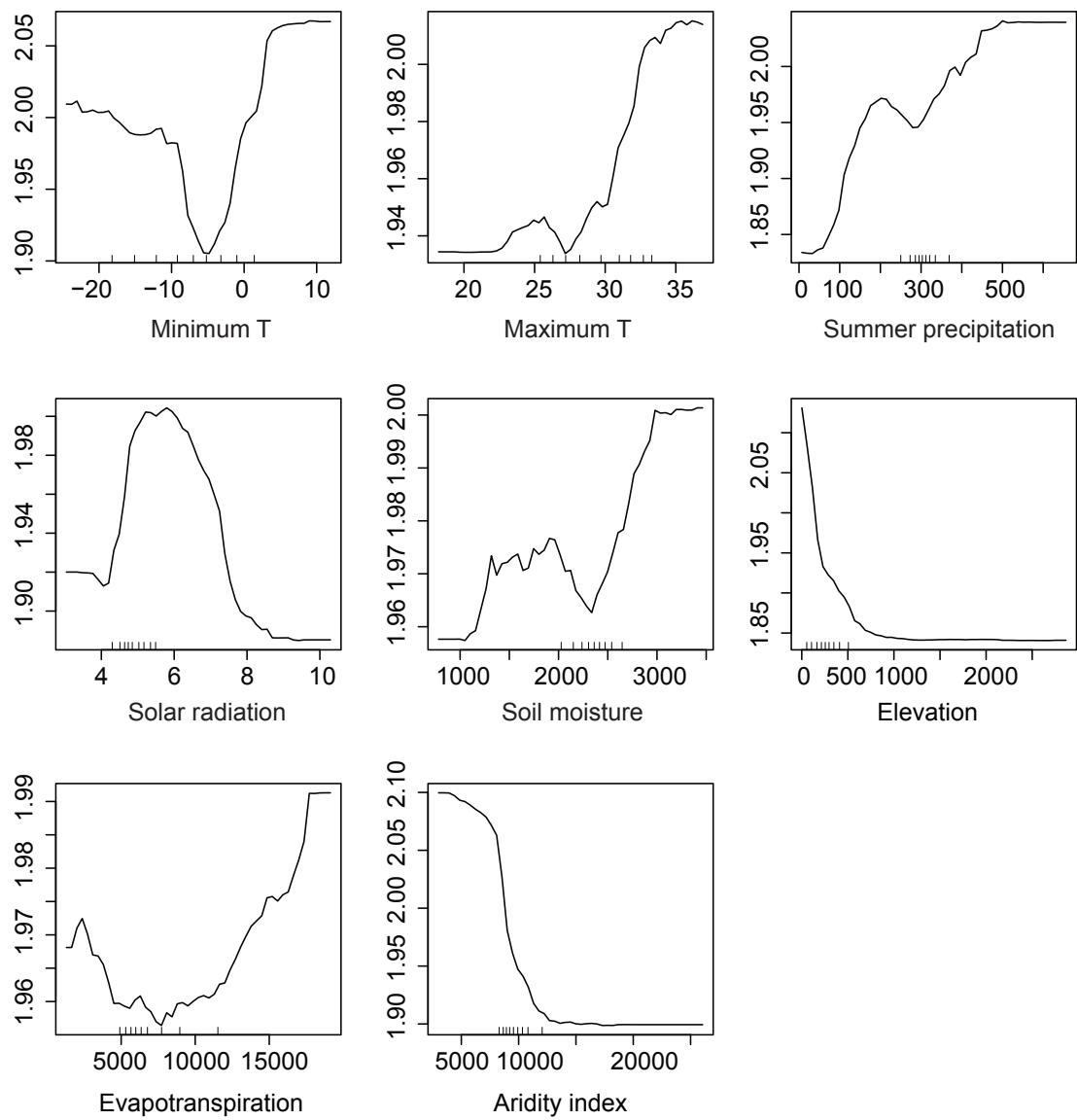
b) Drought tolerance



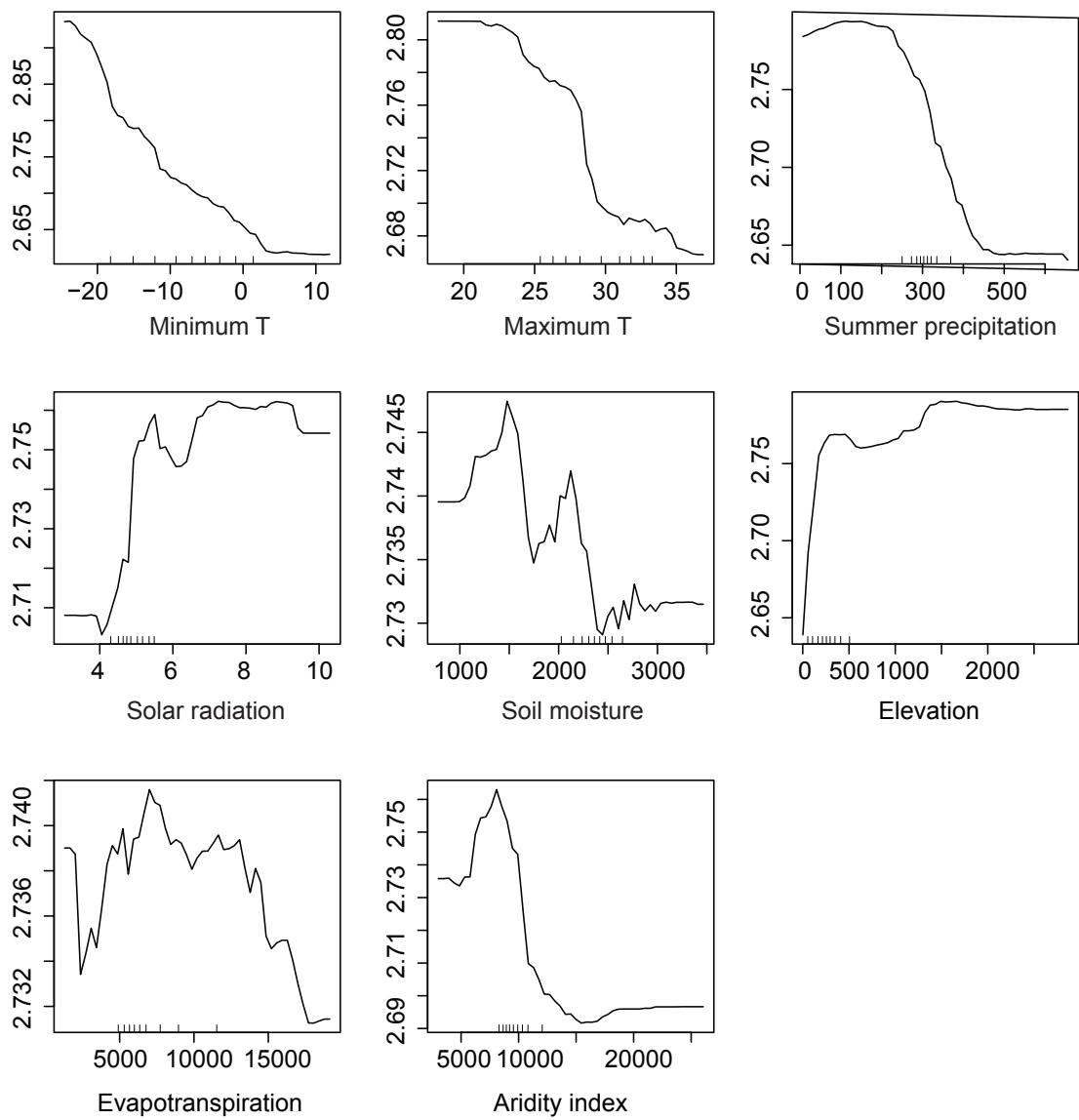
c) Shade tolerance



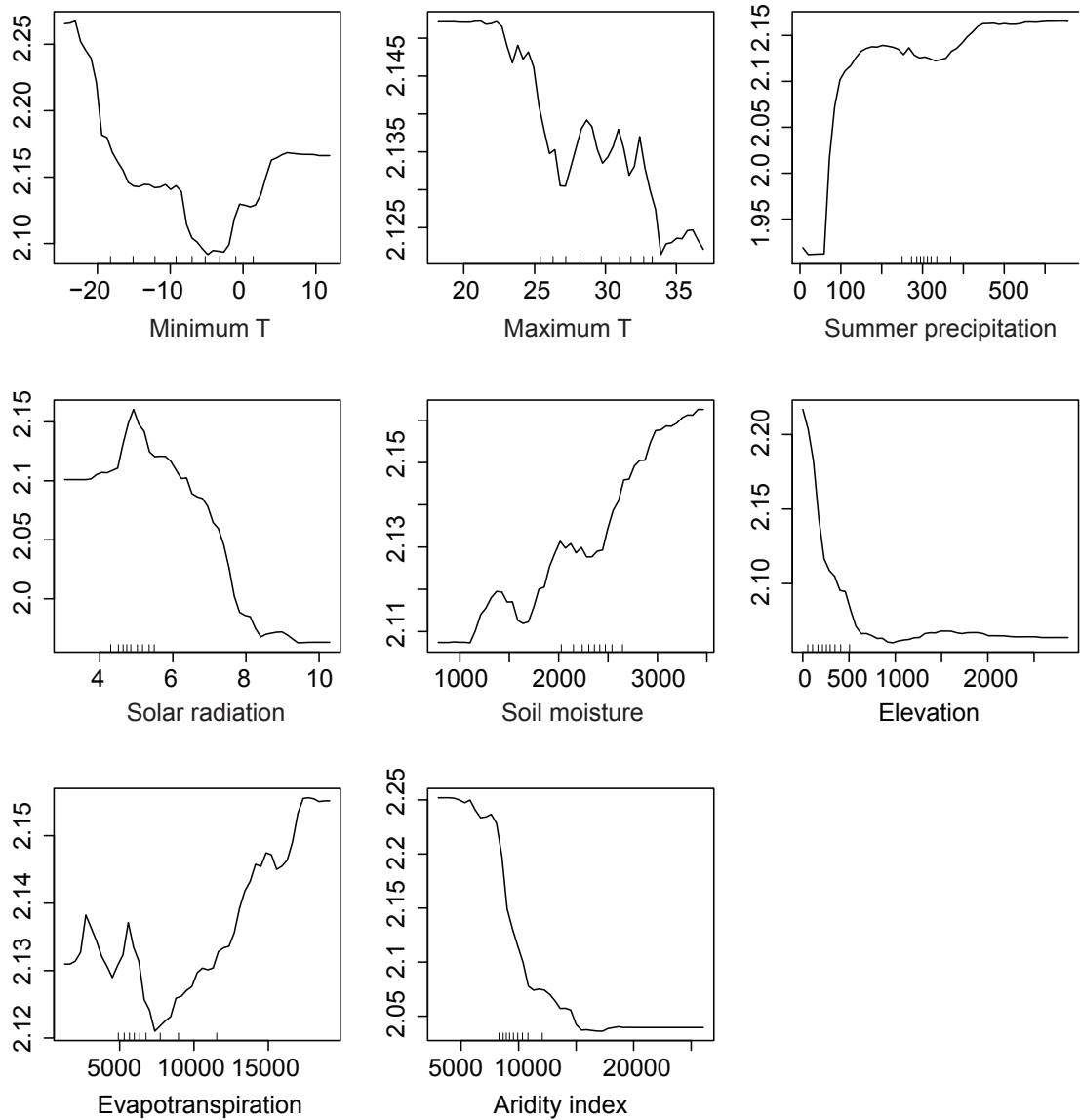
d) Waterlogging tolerance



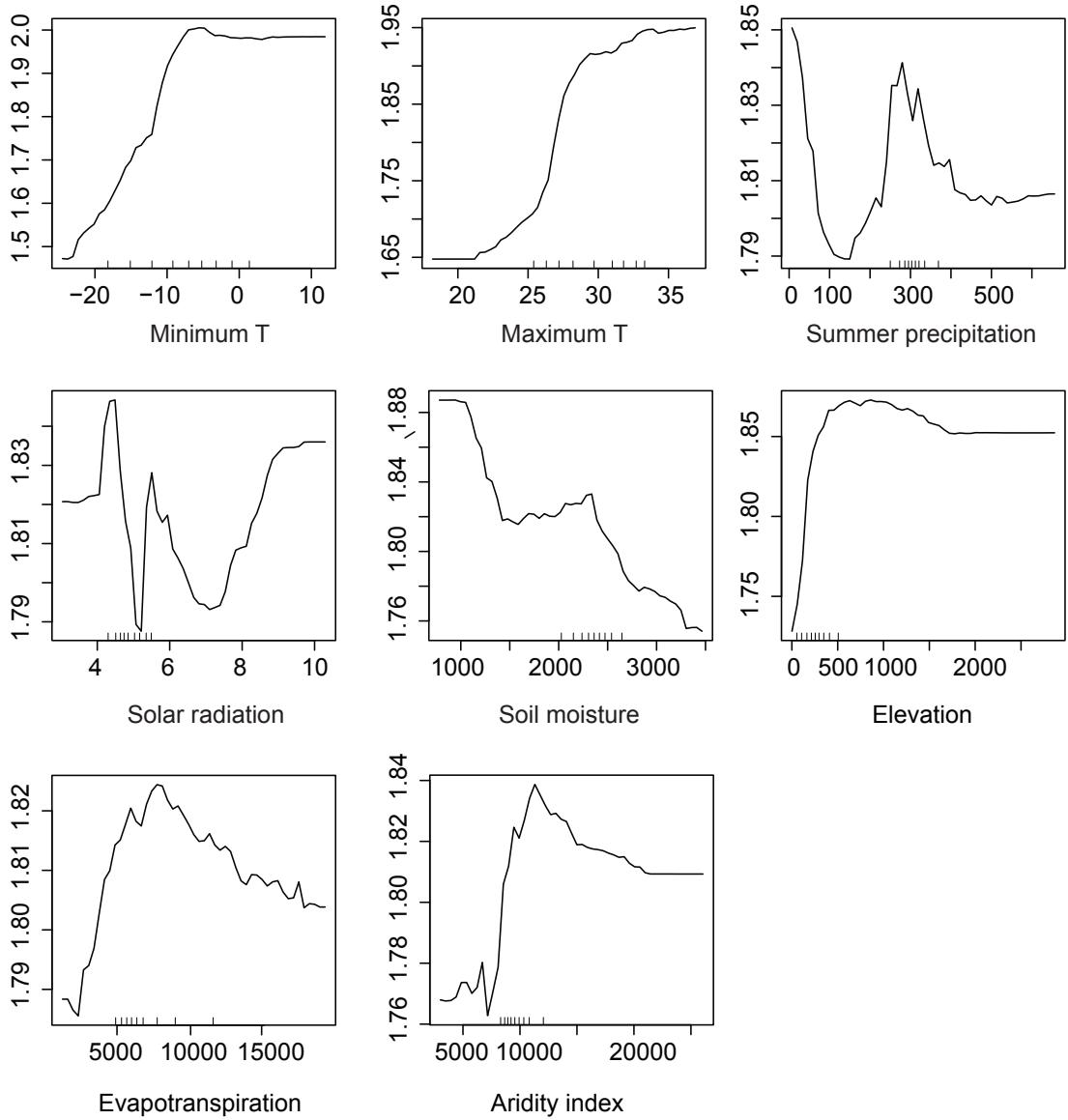
e) Fire tolerance



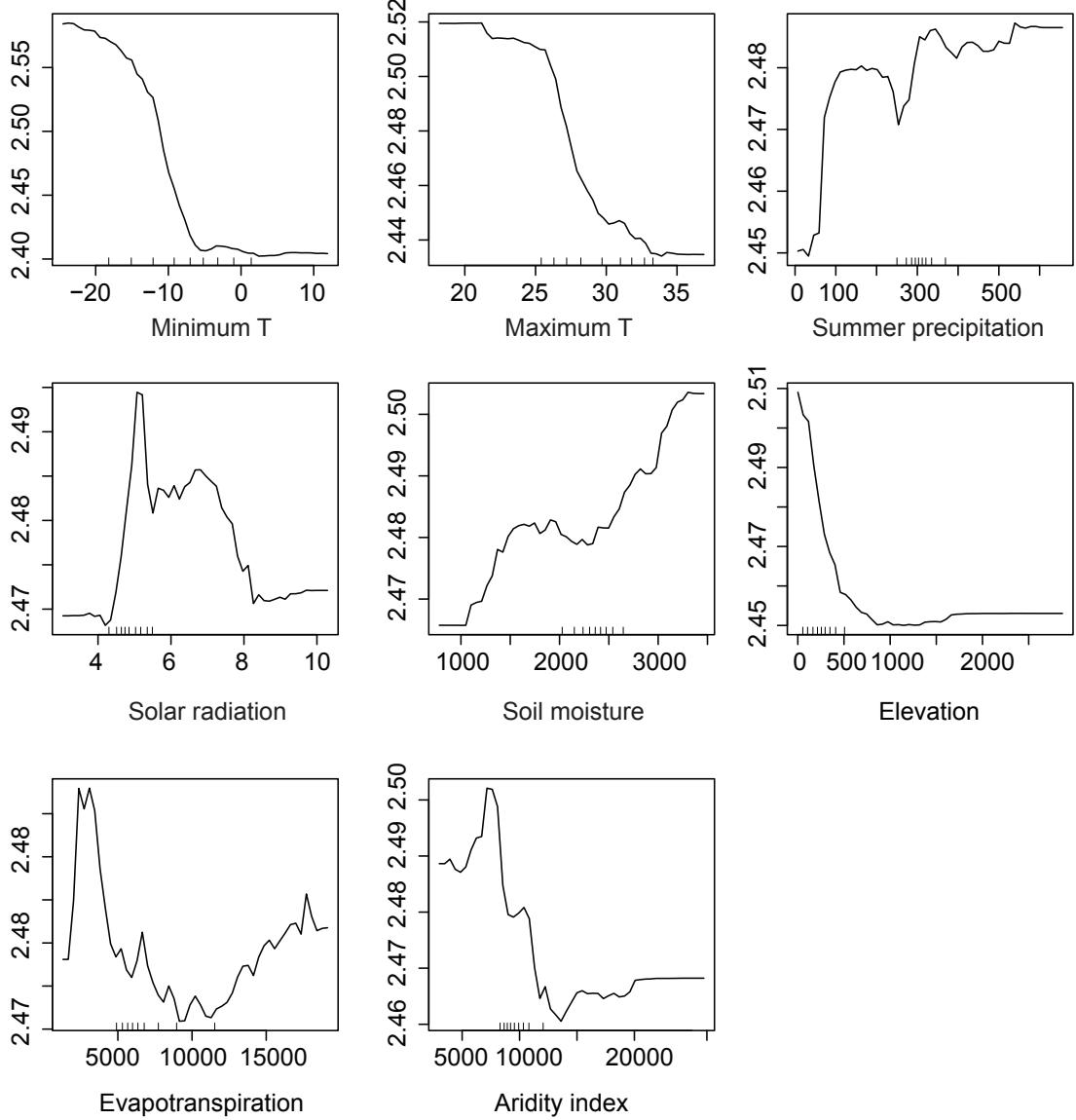
f) Growth rate



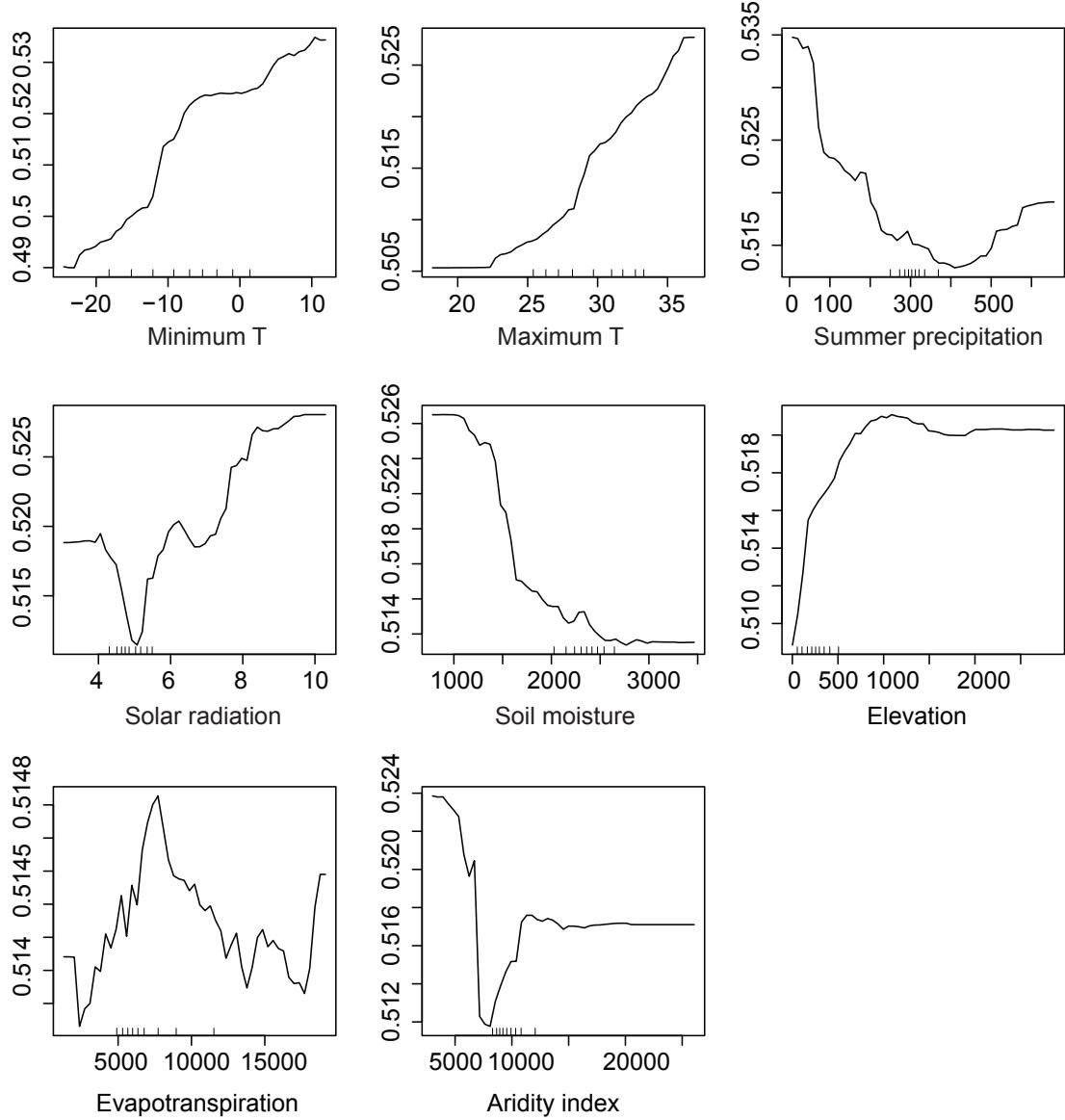
g) Seed size



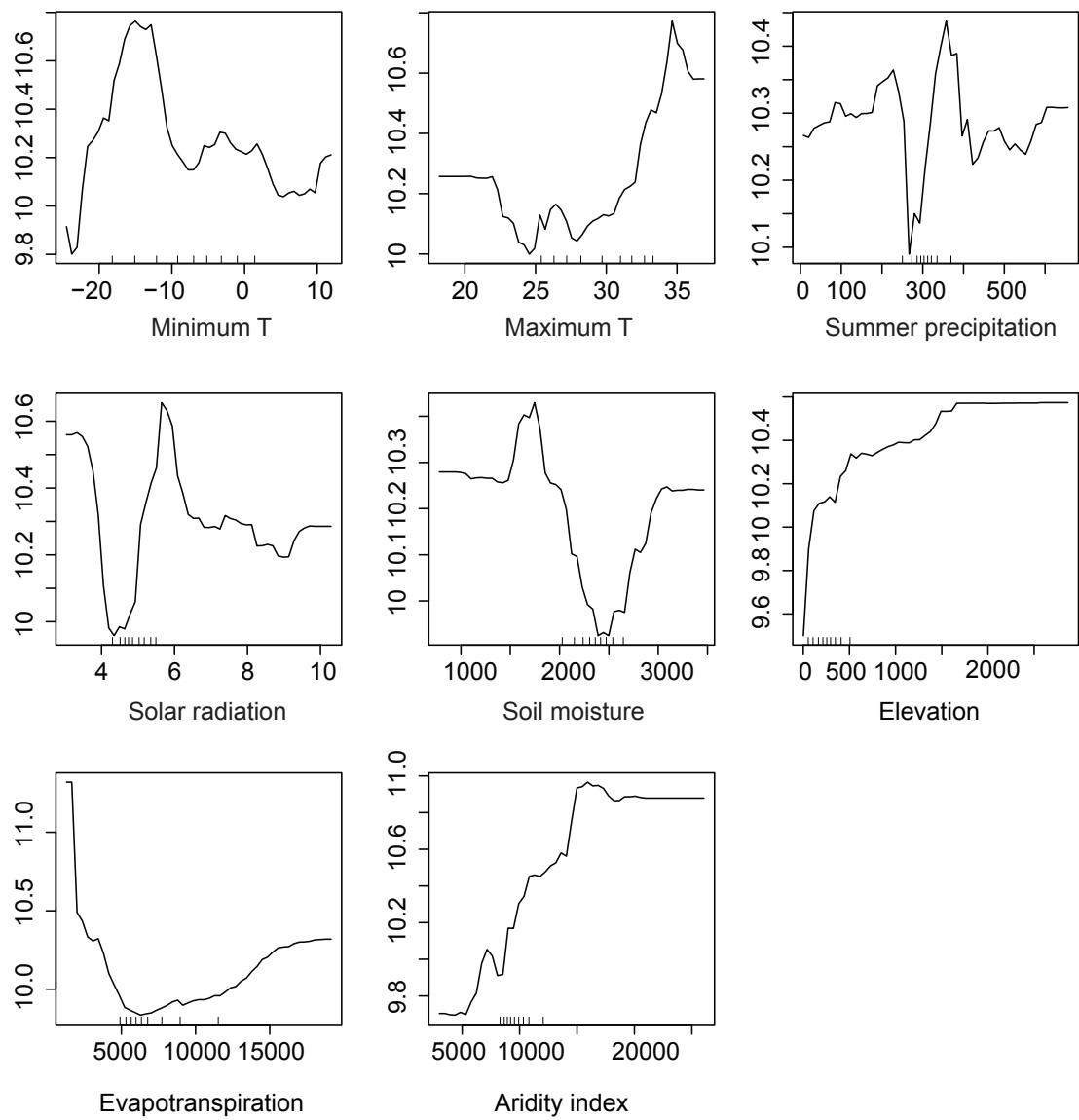
h) Dispersal mode



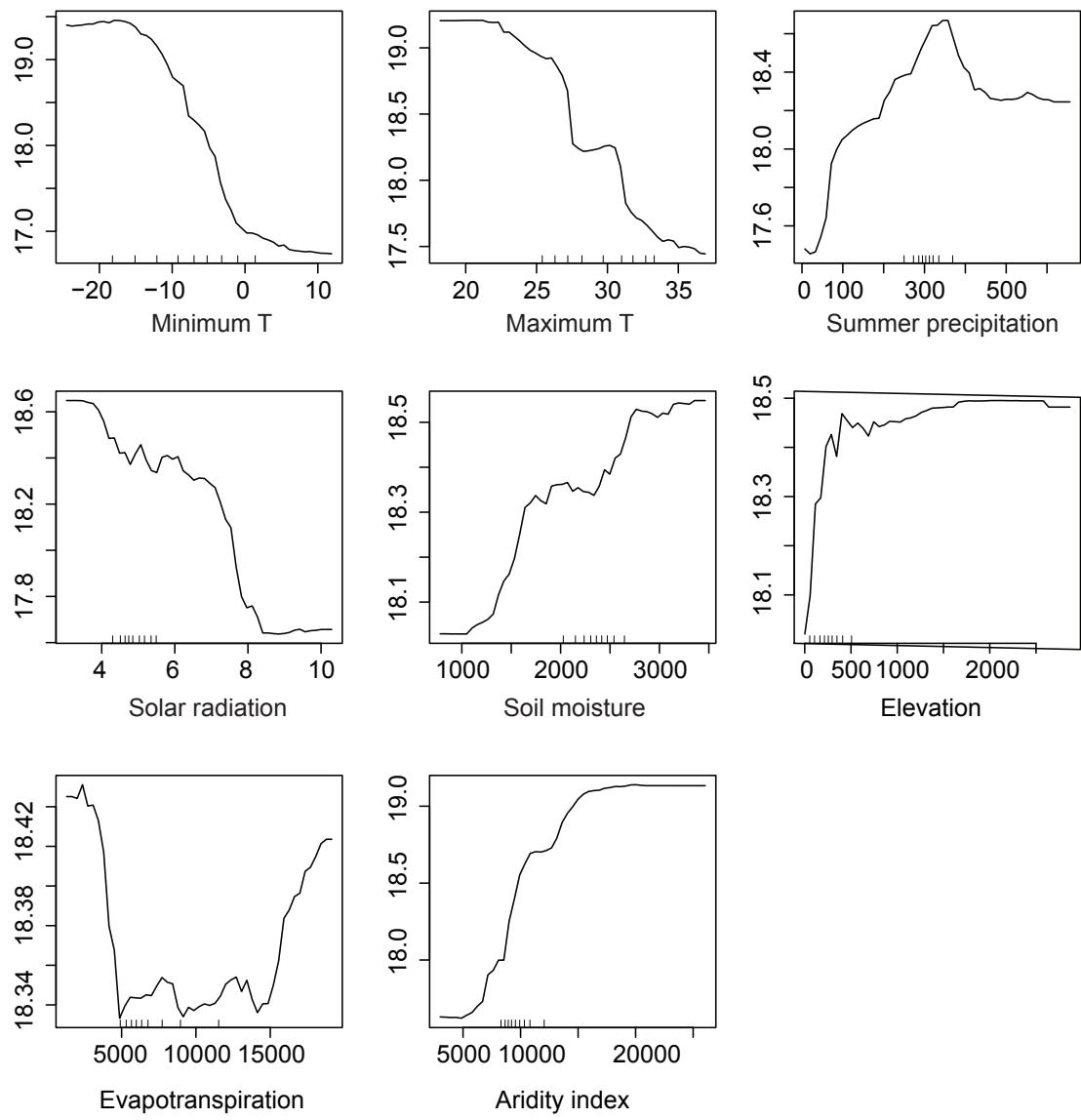
i) Wood density



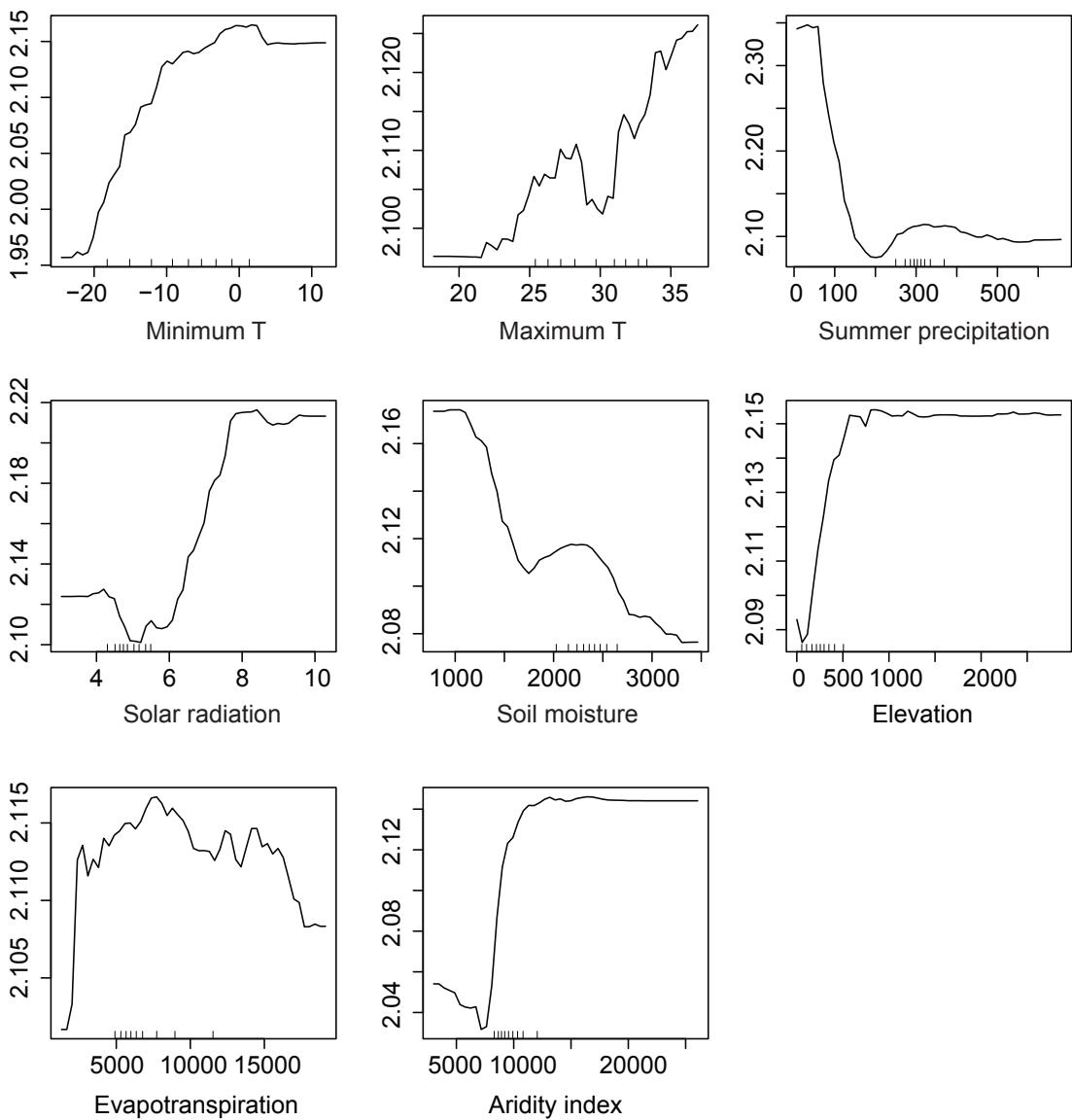
j) Winter buds size



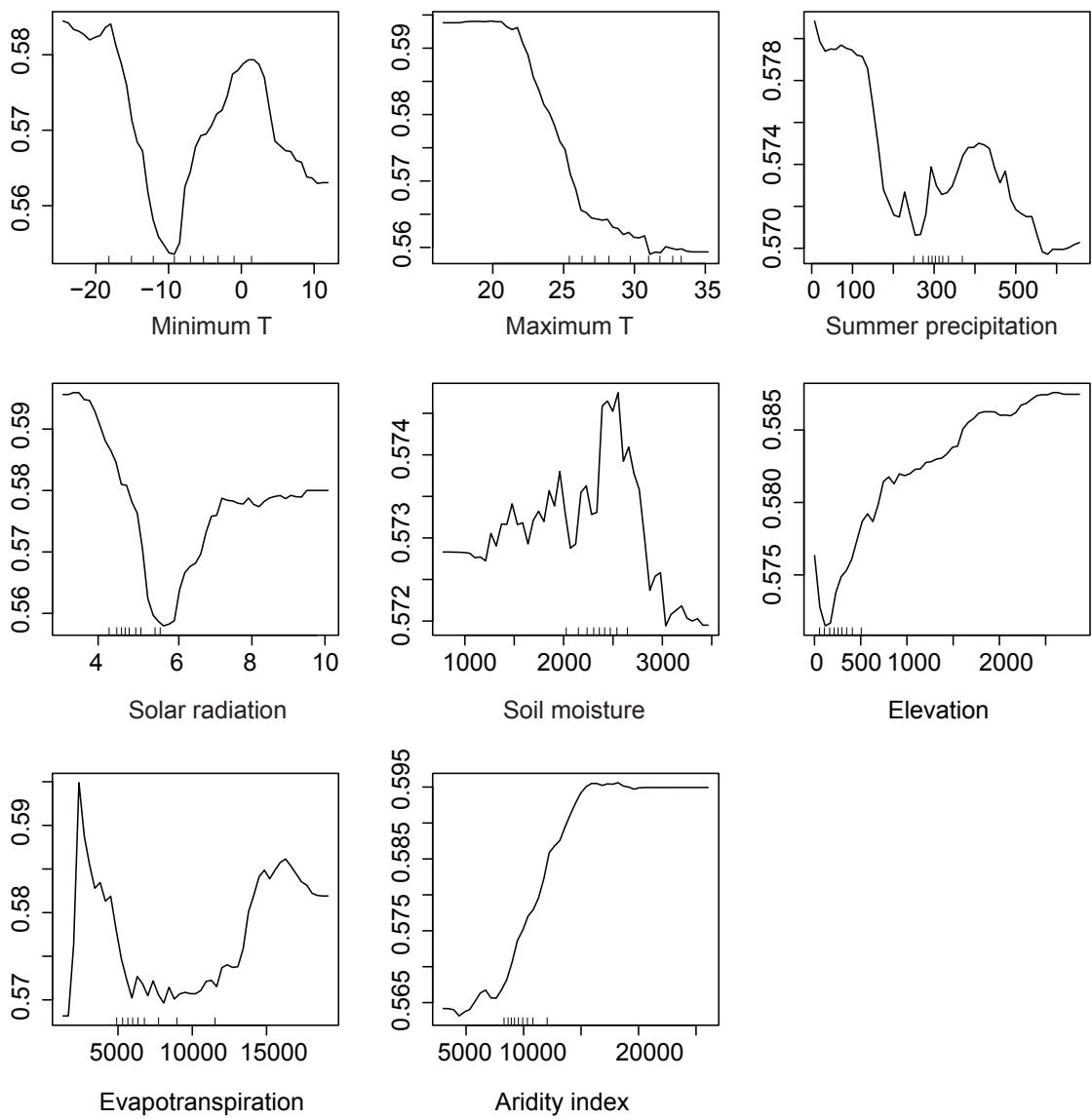
k) SLA



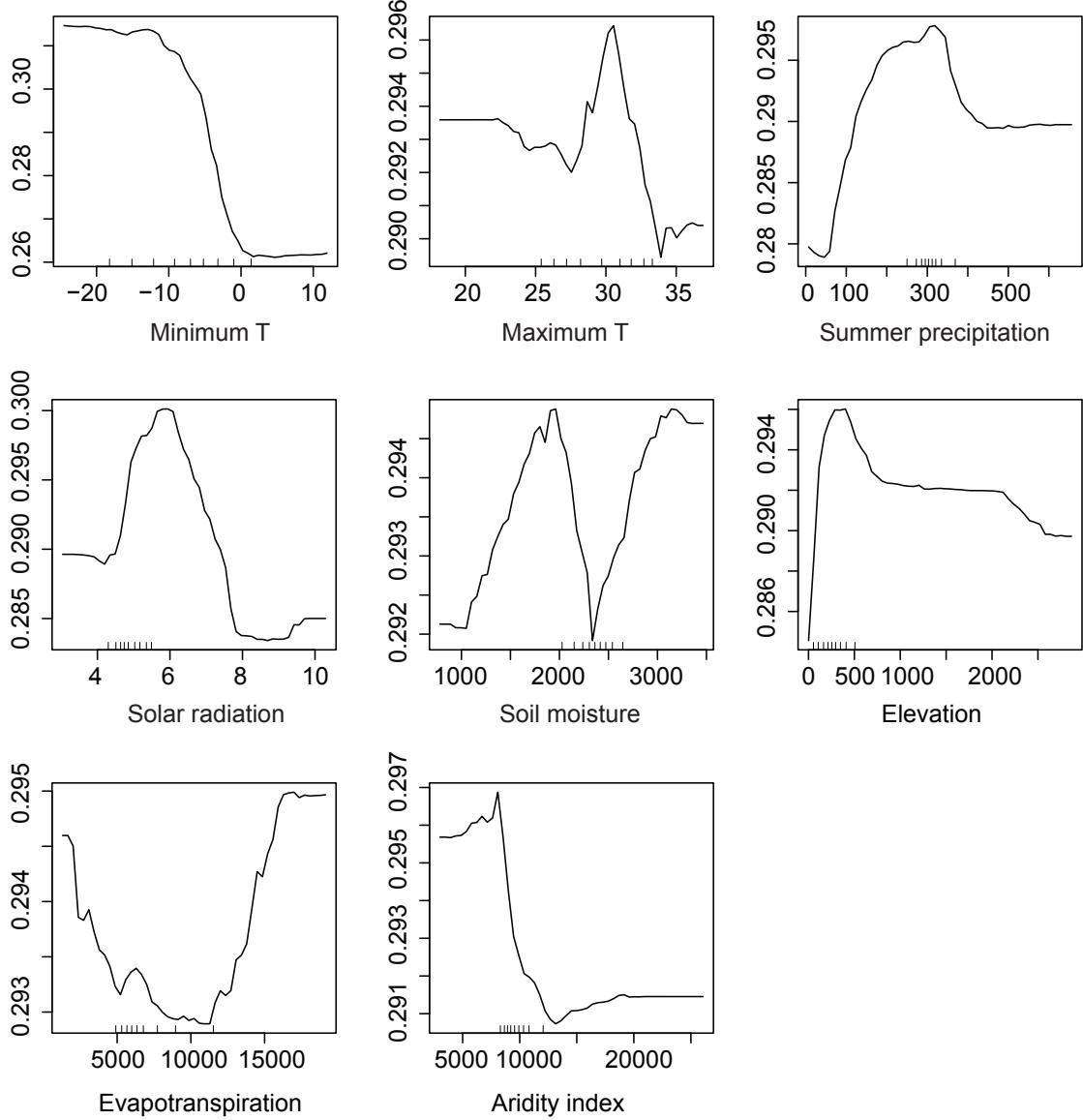
l) Life span



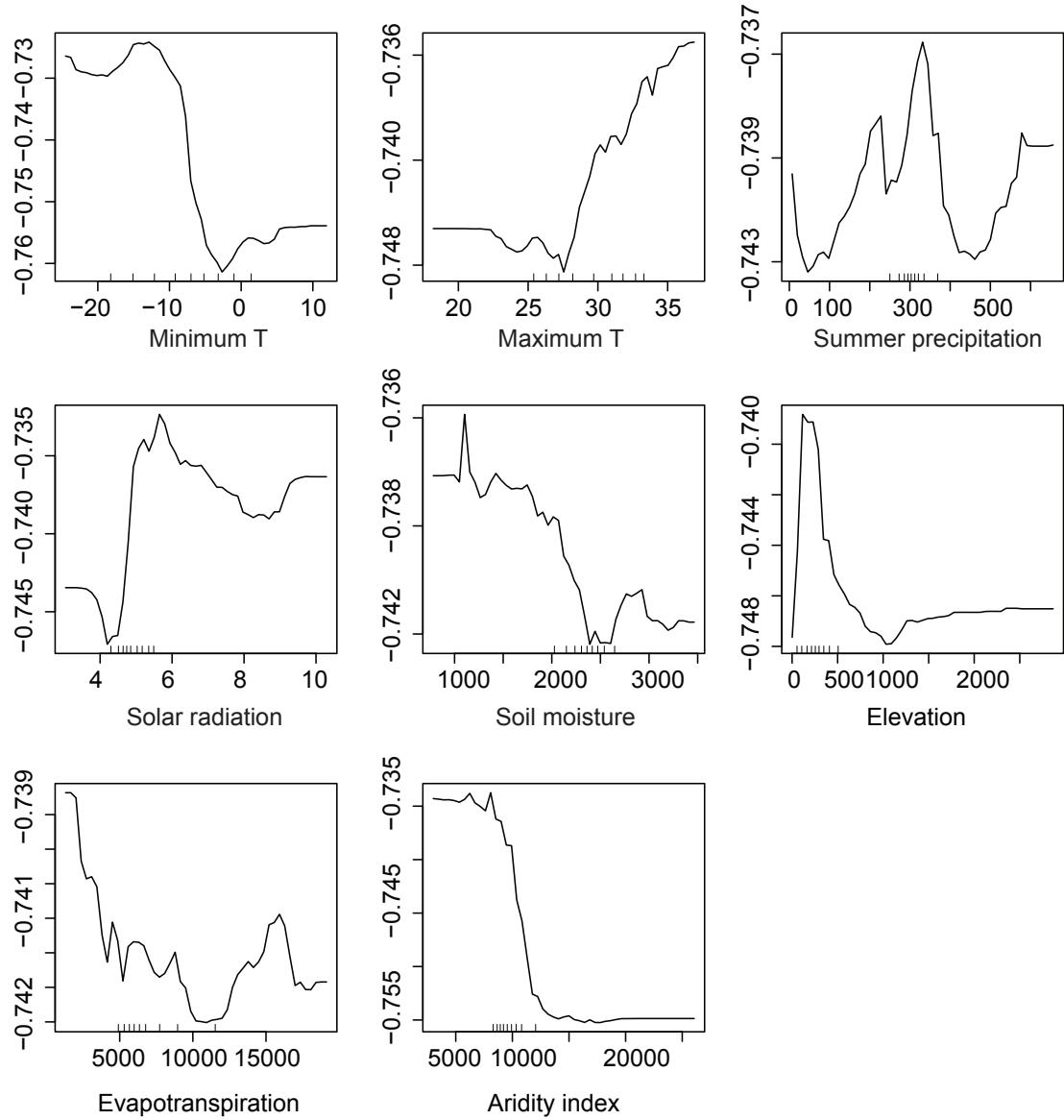
m) Leaf shape



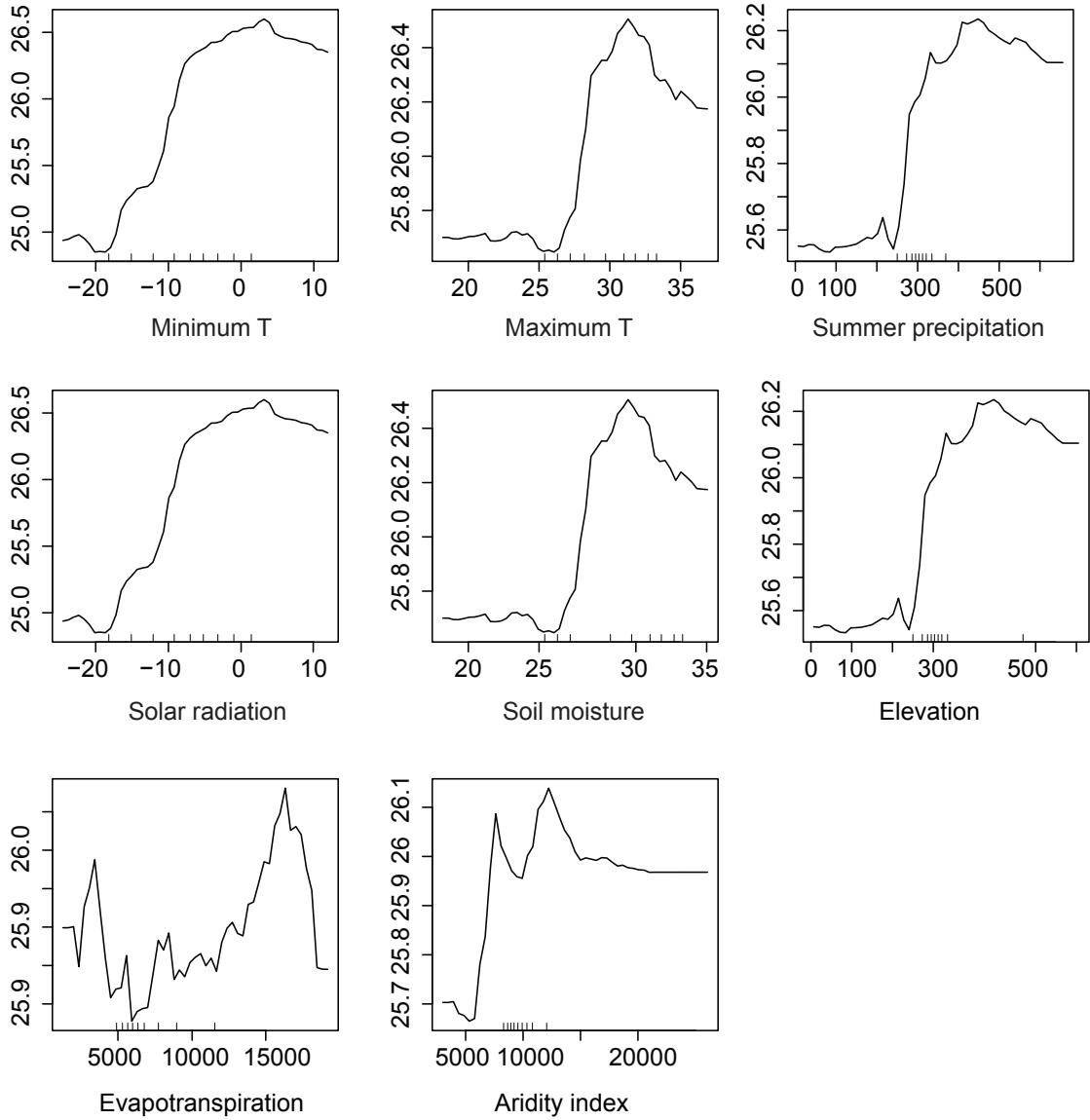
n) Leaf N content



o) Leaf P content



p) Tree height



r) Bark thickness

